

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/533,593
Source: IFWP
Date Processed by STIC: 7/31/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 07/31/2006

PATENT APPLICATION: US/10/533,593

TIME: 14:10:25

Input Set : A:\-135-1.APP

Output Set: N:\CRF4\07312006\J533593.raw

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3 <110> APPLICANT: Johnson, Jeffrey D.
4     Palma, John F.
5     Schweitzer, Anthony C.
6     Blume, John E.
7     Metabolex, Inc.
9 <120> TITLE OF INVENTION: A Pancreatic Islet Transcription Factor and Uses
10    Thereof
12 <130> FILE REFERENCE: 016325-013510US
14 <140> CURRENT APPLICATION NUMBER: US 10/533,593
15 <141> CURRENT FILING DATE: 2005-05-02
17 <150> PRIOR APPLICATION NUMBER: US 60/425,968
18 <151> PRIOR FILING DATE: 2002-11-13
20 <150> PRIOR APPLICATION NUMBER: WO PCT/US03/36131
21 <151> PRIOR FILING DATE: 2003-11-13
23 <160> NUMBER OF SEQ ID NOS: 42
25 <170> SOFTWARE: PatentIn Ver. 2.1
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 3048
29 <212> TYPE: DNA
30 <213> ORGANISM: Homo sapiens
32 <220> FEATURE:
33 <223> OTHER INFORMATION: human IC-RFX islet transcription factor cDNA
35 <400> SEQUENCE: 1
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38 cggcgcgcg cgaggtgtcc ggcgggcagg aggatggcca aggtcccga gctggaagac 180
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43 gccgacaacc acgacagcaa aaccaaagca gcgatcaat acctgtctca gaagaaaacc 480
44 atcacgcaga ttgtgaagga taaaaagaag cagacacagc tcacgctgca gtggcttgaa 540
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54 gttatcattg atattttctg tgtttgtgac tcaattcttt ataaggttct tacagatgta 1140
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59 gtgtctgata ttgaaagggt tgatttgaac agcattggct ctcaagccct tcttaccatt 1440
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64 ctcaccttga acaatgcac cagttttggt tcttttcatt tgattcgaat gcttctcgat 1740
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66 aattttattgg acaagtatat gaagaattca gatgcgagta aagctgcttt cactgcttct 1860
67 ccgagttcat gctttctggc caaccgtaat aaaggagca tggtttccag cgacgtgtg 1920
68 aagaatgaaa gccacgtgga gacaacctat ctccctctgc catccagtca acctggaggc 1980
69 ctaggccctg ctctgcacca gttccctgct gggaacacag acaacatgcc gctcacaggt 2040
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83 tccaaccagt atccagctca agaaacctg gactcccatg gaacaagcag tagagaaatg 2880
84 gtgtcctctt taccacctat caacactgtg ttcatgggaa cagcagctgg aggcacttaa 2940
85 accaccaatg tgggaggggg tgctaaaact ttaaaaaaaa tctctactgt gcaaatatca 3000
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89 <210> SEQ ID NO: 2

90 <211> LENGTH: 928

91 <212> TYPE: PRT

92 <213> ORGANISM: Homo sapiens

94 <220> FEATURE:

95 <223> OTHER INFORMATION: human IC-RFX islet transcription factor

97 <400> SEQUENCE: 2

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102             20             25             30
104 Leu Gly Lys Gly Leu Leu Val Tyr Pro Glu Glu Thr Val Tyr Leu Ala
105             35             40             45
107 Ala Glu Gly Gln Pro Gly Gly Glu Gln Gly Gly Gly Glu Lys Gly Glu
108             50             55             60
110 Asp Pro Glu Leu Pro Gly Ala Val Lys Ser Glu Met His Leu Asn Asn
111   65             70             75             80
113 Gly Asn Phe Ser Ser Glu Glu Glu Asp Ala Asp Asn His Asp Ser Lys

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Input Set : A:\-135-1.APP

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117				100					105					110		
119	Ile	Val	Lys	Asp	Lys	Lys	Lys	Gln	Thr	Gln	Leu	Thr	Leu	Gln	Trp	Leu
120				115				120					125			
122	Glu	Glu	Asn	Tyr	Ile	Val	Cys	Glu	Gly	Val	Cys	Leu	Pro	Arg	Cys	Ile
123				130				135					140			
125	Leu	Tyr	Ala	His	Tyr	Leu	Asp	Phe	Cys	Arg	Lys	Glu	Lys	Leu	Glu	Pro
126	145						150				155					160
128	Ala	Cys	Ala	Ala	Thr	Phe	Gly	Lys	Thr	Ile	Arg	Gln	Lys	Phe	Pro	Leu
129							165				170					175
131	Leu	Thr	Thr	Arg	Arg	Leu	Gly	Thr	Arg	Gly	His	Ser	Lys	Tyr	His	Tyr
132							180				185					190
134	Tyr	Gly	Ile	Gly	Ile	Lys	Glu	Ser	Ser	Ala	Tyr	Tyr	His	Ser	Val	Tyr
135				195				200					205			
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138				210				215					220			
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143	Leu	Pro	Glu	Phe	Pro	Ser	Ala	Gln	His	Leu	Val	Tyr	Gln	Gly	Cys	Ile
144							245				250					255
146	Ser	Lys	Asp	Lys	Val	Asp	Thr	Leu	Ile	Met	Met	Tyr	Lys	Thr	His	Cys
147							260				265					270
149	Gln	Cys	Ile	Leu	Asp	Asn	Ala	Ile	Asn	Gly	Asn	Phe	Glu	Glu	Ile	Gln
150							275				280					285
152	His	Phe	Leu	Leu	His	Phe	Trp	Gln	Gly	Met	Pro	Asp	His	Leu	Leu	Pro
153							290					300				
155	Leu	Leu	Glu	Asn	Pro	Val	Ile	Ile	Asp	Ile	Phe	Cys	Val	Cys	Asp	Ser
156	305						310					315				320
158	Ile	Leu	Tyr	Lys	Val	Leu	Thr	Asp	Val	Leu	Ile	Pro	Ala	Thr	Met	Gln
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162							340				345					350
164	Trp	Glu	Gln	Trp	Val	Val	Ser	Ser	Leu	Glu	Asn	Leu	Pro	Glu	Ala	Leu
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168							370					380				
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173	Phe	Asp	Gln	His	Val	Val	Asn	Ser	Met	Val	Ser	Asp	Ile	Glu	Arg	Val
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177							420				425					430
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188 Ser Lys Gln Asn Gly Arg Ser Leu Lys Lys Arg Ala Gln Asp Phe Leu
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192                               500                               505                               510
194 Asn Asn Ala Ser Ser Phe Gly Ser Phe His Leu Ile Arg Met Leu Leu
195                               515                               520                               525
197 Asp Glu Tyr Ile Leu Leu Ala Met Glu Thr Gln Phe Asn Asn Asp Lys
198                               530                               535                               540
200 Glu Gln Glu Leu Gln Asn Leu Leu Asp Lys Tyr Met Lys Asn Ser Asp
201 545                               550                               555                               560
203 Ala Ser Lys Ala Ala Phe Thr Ala Ser Pro Ser Ser Cys Phe Leu Ala
204                               565                               570                               575
206 Asn Arg Asn Lys Gly Ser Met Val Ser Ser Asp Ala Val Lys Asn Glu
207                               580                               585                               590
209 Ser His Val Glu Thr Thr Tyr Leu Pro Leu Pro Ser Ser Gln Pro Gly
210                               595                               600                               605
212 Gly Leu Gly Pro Ala Leu His Gln Phe Pro Ala Gly Asn Thr Asp Asn
213 610                               615                               620
215 Met Pro Leu Thr Gly Gln Met Glu Leu Ser Gln Ile Ala Gly His Leu
216 625                               630                               635                               640
218 Met Thr Pro Pro Ile Ser Pro Ala Met Ala Ser Arg Gly Ser Val Ile
219                               645                               650                               655
221 Asn Gln Gly Pro Met Ala Gly Arg Pro Pro Ser Val Gly Pro Val Leu
222                               660                               665                               670
224 Ser Ala Pro Ser His Cys Ser Thr Tyr Pro Glu Pro Ile Tyr Pro Thr
225                               675                               680                               685
227 Leu Pro Gln Ala Asn His Asp Phe Tyr Ser Thr Ser Ser Asn Tyr Gln
228 690                               695                               700
230 Thr Val Phe Arg Ala Gln Pro His Ser Thr Ser Gly Leu Tyr Pro His
231 705                               710                               715                               720
233 His Thr Glu His Gly Arg Cys Met Ala Trp Thr Glu Gln Gln Leu Ser
234                               725                               730                               735
236 Arg Asp Phe Phe Ser Gly Ser Cys Ala Gly Ser Pro Tyr Asn Ser Arg
237                               740                               745                               750
239 Pro Pro Ser Ser Tyr Gly Pro Ser Leu Gln Ala Gln Asp Ser His Asn
240                               755                               760                               765
242 Met Gln Phe Leu Asn Thr Gly Ser Phe Asn Phe Leu Ser Asn Thr Gly
243 770                               775                               780
245 Ala Ala Ser Cys Gln Gly Ala Thr Leu Pro Pro Asn Ser Pro Asn Gly
246 785                               790                               795                               800
248 Tyr Tyr Gly Ser Asn Ile Asn Tyr Pro Glu Ser His Arg Leu Gly Ser
249                               805                               810                               815
251 Met Val Asn Gln His Val Ser Val Ile Ser Ser Ile Arg Ser Leu Pro
252                               820                               825                               830
254 Pro Tyr Ser Asp Ile His Asp Pro Leu Asn Ile Leu Asp Asp Ser Gly
255                               835                               840                               845
257 Arg Lys Gln Thr Ser Ser Phe Tyr Thr Asp Thr Ser Ser Pro Val Ala
258                               850                               855                               860
260 Cys Arg Thr Pro Val Leu Ala Ser Ser Leu Gln Thr Pro Ile Pro Ser

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261 865                      870                      875                      880
263 Ser Ser Ser Gln Cys Met Tyr Gly Thr Ser Asn Gln Tyr Pro Ala Gln
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266 Glu Thr Leu Asp Ser His Gly Thr Ser Ser Arg Glu Met Val Ser Ser
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269 Leu Pro Pro Ile Asn Thr Val Phe Met Gly Thr Ala Ala Gly Gly Thr
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274 <211> LENGTH: 928
275 <212> TYPE: PRT
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: Description of Artificial Sequence:exemplary
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282 <220> FEATURE:
283 <221> NAME/KEY: MOD_RES
284 <222> LOCATION: (1)..(928)
285 <223> OTHER INFORMATION: Xaa = any amino acid
287 <400> SEQUENCE: 3
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291 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
292                      20                      25                      30
294 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
295                      35                      40                      45
297 Xaa Xaa Xaa Xaa Pro Gly Xaa Xaa Xaa Gly Gly Xaa Xaa Xaa Xaa Xaa
298                      50                      55                      60
300 Xaa Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Glu Xaa Xaa Leu Asn Xaa
301      65                      70                      75                      80
303 Gly Xaa Xaa Xaa Ser Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Ser Xaa
304                      85                      90                      95
306 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Lys Xaa Xaa Xaa Xaa Xaa
307                      100                     105                     110
309 Xaa Xaa Xaa Xaa Lys Xaa Xaa Xaa Thr Xaa Xaa Thr Leu Gln Trp Leu
310                      115                     120                     125
312 Glu Glu Asn Tyr Xaa Xaa Xaa Glu Gly Val Cys Leu Pro Arg Cys Xaa
313                      130                     135                     140
315 Leu Tyr Xaa His Tyr Leu Asp Phe Cys Xaa Lys Xaa Xaa Xaa Xaa Pro
316      145                     150                     155                     160
318 Xaa Xaa Ala Ala Xaa Phe Gly Lys Xaa Ile Arg Gln Xaa Phe Pro Xaa
319                      165                     170                     175
321 Leu Thr Thr Arg Arg Leu Gly Thr Arg Gly Xaa Ser Lys Tyr His Tyr
322                      180                     185                     190
324 Tyr Gly Ile Xaa Xaa Lys Glu Ser Ser Xaa Tyr Tyr Xaa Xaa Xaa Tyr
325                      195                     200                     205
327 Ser Xaa Lys Gly Xaa Xaa Xaa Xaa Ser Xaa Xaa Xaa Xaa Lys Xaa Xaa
328                      210                     215                     220
330 Xaa Xaa Xaa Thr Xaa Xaa Tyr Ser Xaa Xaa Ser Lys Xaa Gly Thr Leu
331      225                     230                     235                     240

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RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : A:\-135-1.APP
Output Set: N:\CRF4\07312006\J533593.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.

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 Seq#:5; Xaa Pos. 2,3,5,6,7,9,10,13,14,18,19,20,22,23,25,26,27,28,29,30,31
 Seq#:5; Xaa Pos. 32,33
 Seq#:6; Xaa Pos. 3,4,5,6,7,8,12,13,14,15,16,17,19,20,22,23,24,27,31,32,33
 Seq#:6; Xaa Pos. 34,36,37,38,39

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/533,593

DATE: 07/31/2006

TIME: 14:10:26

Input Set : A:\-135-1.APP

Output Set: N:\CRF4\07312006\J533593.raw

L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
M:341 Repeated in SeqNo=3
L:478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
M:341 Repeated in SeqNo=5
L:534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
M:341 Repeated in SeqNo=6
L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
M:341 Repeated in SeqNo=7